PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF INTERCONNECT WIRING BETWEEN THE PROPOSED SIGNAL CABINET AT THE NEW DISTRICT HEIGHTS VFD #26 AND THE EXISTING SIGNAL CABINET AT THE INTERSECTION OF I/ID 458 (SILVER HILL ROAD) AND MARLBORO PIKE. MD 458 RUNS IN A NORTH/SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 458 APPROACHES OPERATING CONCURRENTLY AND THE MARLBORO PIKE APPROACHES OPERATING CONCURRENTLY. A NEW PRE-EMPTION PHASE WILL BE INSTALLED FOR THE NEW DISTRICT HEIGHTS VFD #26. THE PRE-EMPTION PHASE WILL ACTIVATE PHASES 4 AND 7 FOR EASTBOUND MARLBORO PIKE AND STOP ALL OTHER APPROACHES.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

SPECIAL NOTE

PHONE: (301) 513-7404

THE CONTRACTOR SHALL CONTACT THE MDSHA SIGNAL SHOP PRIOR TO INSTALLING THE INTERCONNECT WIRING BETWEEN THE SIGNAL CABINETS.

PRCJECT CONTACTS MR. BRIAN YOUNG, ASSISTANT DISTRICT ENGINEER - TRAFFIC

MR. KEVIN NOWAK, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (301) 513-7385

MR. WAYNE MOWDY, ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 513-7304

MR. AUGIE REBISH, UTILITY ENGINEER PHONE: (301) 513-7350

MR. RICHARD L. DAFF, SR., CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. IEDWARD RODENHIZER, CHIEF TRAFFIC SIGNAL SHOP PHONE: (410) 787-7650

MR. ROBERT SNYDER, ASSISTANT DIVISION CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 781-7631

MR. GEORGE JOHNSON, JR., PRINCE GEORGE'S COUNTY SIGNAL SHOP PHONE: (301) 499-8616

MR. HADI QUAIYUM, CHIEF TRAFFIC MANAGEMENT & OPERATIONS DIVISION (PRINCE GEORGE'S COUNTY) PHONE: (301) 324-2722

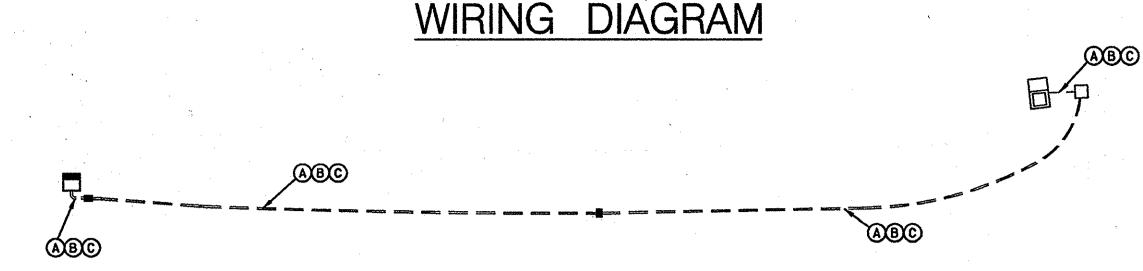
MR. ARMEN ABRAHAMIAN, CHIEF DESIGN AND PLANNING SECTION (PRINCE GEORGE'S COUNTY) PHONE: (301) 883-5650

MAJOR RICHARD M. LAMBDIN, PRINCE GEORGE'S COUNTY FIRE/EMERGENCY MEDICAL SERVICES DEPARTMENT PHOINE: (240) 508-1695

EQUIPMENT LIST

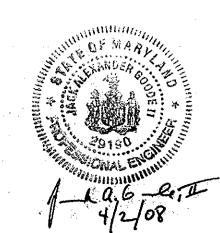
EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY PRINCE GEORGE'S COUNTY DPW&T'S CONTRACTOR.

QUAINTITY	UNITS	DESCRIPTION
195	LF	FURNISH AND INSTALL 3 INCH POLYVINYL CHLORIDE SCHEDULE 80 RIGID
		CONDUIT-TRENCHED.
1	LS	MAINTENANCE OF TRAFFIC
. 1	LS	MOBILIZATION
55	LF	FURNISH AND INSTALL 3 INCH POLYVINYL CHLORIDE SCHEDULE 80 RIGID CONDUIT-BORED
2:	EA	FURNISH AND INSTALL ELECTRICAL HANDBOX.
260	LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE.
260	LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG).
260	LF	FURNISH AND INSTALL 12-PAIR JELLY FILLED NO. 19 AWG COMMUNICATION
		CABLE (UNDERGROUND).



(A) - 12-PAIR JELLY FILLED INTERCONNECT WIRING (UNDERGROUND) (NO. 19 AWG)
(B) - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
(C) - STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

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PHASE 1 +5	- -G-	G	R	R		G-	R	R	R	R	R	.R	R	R	DW	DŴ	DW	DW	DW	DW	DW	DW	J
1+5 CHANGE	PHASE	1+5 MAY	CHANGE	TO PHAS	E 1+6, Ph	IASE 2+5	OR PHAS	SE 2+6														1)_
PHASE 1+6	- -G-	→ G —	G	G			R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	_
1+6 CHANGE	→ Y —	Y	G	G	R		R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW +)
PHASE 2+5	R	R	R	R	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	Π
2+5 CHANGE	R	 R−	R	R	Y	Y	G	G	R	R	R	R	R	R	DW	DW .	DW	DW	DW	DW	DW	DW.	* -
PHASE 2+6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW _	
PED CLEARANCE	R	→- R	G	G	R-	R	G	G	R	R	R	R	R	R	FL /DW	FL /DW	FL /DW	FL /DW	DW	DW	DW	DW	
2+6 CHANGE	R	R	Υ	Y	R-	R	Υ	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	V
PHASE 3 AND 7		R	R	R			R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	*
3 AND 7 CHANGE	PHASE	3+7 MAY	CHANGE	TO PHAS	E 3+8, Pl	HASE 4+7	OR PHA	SE 4+8		<u> </u>		<u></u>	:	1	<u> </u>						<u> </u>		
PHASE 3 AND 8	1	R	R	R	I →-R		R	R	R	R	R	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW -	<u> </u>
3 AND 8 CHANGE	 R	R	R	R	- R-		R	R	R	R	R	Ğ	G	G	DW	DW	DW	DW	DW	DW	DW	DW 1	\checkmark
PHASE 4 AND 7	R	R-	R	R	R		R	R	G	G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	TA A
4 AND 7 CHANGE		⊸ R—	R	R		R	R	R	Ğ	Ğ	1	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW =	ブ ▶
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4 AND 8 CHANGE	 	-R-	R	R		R	R	R	Y	Y	Y	Y	T 7	Y	DW	DW	DW	DW	DW	DW	DW	DW	
PHASE 4 AND 8 ALT.	 	R	R	R			R	R	G	G	G	l G	G	G	DW	DW	DW	DW	WK	WK	WK	 	T
PED CLEARANCE	 		R	R		R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL /DW	FL /DW	
4+8 ALT. CHANGE	<u> </u>		R	R	-R-		R	R	 	T Y	Y	T V	Y	Y	DW	DW	DW	DW	DW	DW	,DM		>
FLASHING OPERATION		→FL /R-		FL /Y		→FL /R-	FL /Y	FL /Y	FL /R	FL /R	FL/R	FL/R	FL/R	FL /R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	+++
PRE-EMPTION PHASE	→ R-	R-	R	R	R	R	R	R		- G	G	R ;,	R	R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	<u>.</u>
PRE-EMPTION	 R	R	R	R			R	R		Y	Y	R	R	R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	$\stackrel{\checkmark}{\longrightarrow}$





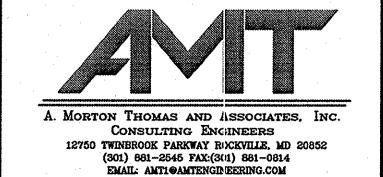
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

DISTRICT HEIGHTS FIRE STATION #26

MD 458 (SILVER HILL ROAD) AT MARLBORO PIKE

	GENERAL	INFORM	ATION
SCALE N.T.S	ADVERTISED DATE_	09/24/07 C	ONTRACT NO. S06-025
DESIGNED BY	JAG	COUNTY_	PRINCE GEORGE'S
DRAWN BY	DEN	LOGMILE .	16045802.71
CHECKED BY	JAG	TIMS NO.	1553
F.A.P. NO	N/A	TOD NO.	NA
TS NO. 1879H	DRAWING SG-02	OF 02	SHEET NO. 2 OF 2



PROFESSIONAL CERTIFICATION

"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT IAM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 29190, EXPIRATION DATE 6-17-09."